

AUTOMATED WEAR LEVELING IN NON-VOLATILE STORAGE SYSTEMS

ABSTRACT OF THE DISCLOSURE

Methods and apparatus for performing wear leveling in a non-volatile memory system are disclosed. Included is a method for performing wear leveling in a memory system that includes a first zone, which has a first memory element that includes contents, and a second zone includes identifying the first memory element and associating the contents of the first memory element with the second zone while disassociating the contents of the first memory element from the first zone. In one embodiment, associating the contents of the first memory element with the second involves moving contents of a second memory element into a third memory element, then copying the contents of the first memory element into the second memory element.